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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,236	01/12/2006	Philippe Perrot	11345/058001	9704

22511 7590 09/04/2008

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EXAMINER	
NGUYEN, ANGELA	
ART UNIT	PAPER NUMBER
4121	

NOTIFICATION DATE	DELIVERY MODE
09/04/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)	
	10/519,236	PERROT, PHILIPPE	
	Examiner	Art Unit	
	ANGELA NGUYEN	4121	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-12* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-12* is/are rejected.

7)☒ Claim(s) *6* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *12/22/2004* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *4/10/2007, 12/22/2004*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

Claims 6 and 7 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim (e.g., 5). See MPEP § 608.01(n). Accordingly, the claim 6 and 7 have not been further treated on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Dillon et al (U.S. 6,351,467), hereinafter Dillon.

With respect to claim 1, Dillon teaches a method for distributing discovery information in an IP multicast television network, comprising

> multicasting offer information (701) linking a service provider offer description (offer l, offer 2) and a service provider offer localisation (LN 0,1, LN 0.2) within the IP multicast network (column 9, lines 3-4, the multicast network 24 performs multicasting the packets (service provider offer information) to the receivers over the link over the

high speed link; column 6, lines 45-47, multicasting content organized into channels (server provider offer description)…wherein a channel's content includes a plurality of URL data items from at least one web site (service provider offer localisation); column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)).

multicasting stream information (702, 703) at the service provider offer localisation, the stream information linking a multi service transport stream (TS 1,1-TS 1,4, TS 2,1 – TS 2,3) and a stream localisation (LN 1,1- LN 1,4, LN 2,1 – LN 2,3) within the IP multicast network (column 15, lines 27-34, A head-end subsystem 52…is responsible for…multicasting the packets to the receivers (multicasting stream information)…optionally multiplexing the back-end subsystem's packets with data (i.e. digital video, audio, etc.) from another broadcast source 27 (link E) (multi service transport stream) and multicasting the resulting data stream(s) to the receivers 26 (stream localisation)).

With respect to claim 2, Dillon teaches a method according to claim 1, in which the offer and stream information are respectively cyclically multicast (fig, 2, offer information of head-end subsystem 52 and stream information of back end system 22 are respectively cylically multicast).

With respect to claim 3, Dillon teaches a method for broadcasting over an IP multicast network at least one offer of multimedia services received in form of a bundle of transport streams, comprising

attributing for each offer (offer 1, offer 2) a determined service provider offer localisation (LN 0,1, LN 0,2) within the IP multicast network (column 6, lines 45-47, multicasting content organized into channels (server provider offer description)…wherein a channel's content includes a plurality of URL data items from at least one web site (determined offer localisation); column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)),

creating a file of offer information (701) describing for each offer a relation to its attributed service provider offer localization (column 9, lines 3-4, the multicast network 24 performs multicasting the packets (service provider offer information) to the receivers over the link over the high speed link; column 6, lines 45-47, multicasting content organized into channels (file of offer information)…wherein a channel's content includes a plurality of URL data items from at least one web site (service provider offer localisation);,

extracting, for each offer, transport stream information from its bundle, the transport stream information comprising a transport stream identification (TS 1,1-TS 1,4, TS 2,1 – TS 2,3) for each transport stream (column 11, lines 31-33, Upon retrieving (extracting) a URL data item (transport stream identification), the web crawler

determines whether and how to include the URL data item within the package (bundle) being produced by the web crawler),

attributing for each transport stream identification a determined stream localization (LN 1,1 – LN 1,4, LN 2,1 – LN 2,3) within the IP multicast network (column 6, lines 45-47, multicasting content organized into channels…wherein a channel's content includes a plurality of URL data items from at least one web site (determined stream localization for each transport stream indentification); column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)),

creating for each offer a file of stream information (702, 703) describing for each transport stream a relation to its attributed stream localization (column 10, lines 27-29, The web crawler 30 formats a channel's content (offer) into a single data structure that is preferably stored and transferred (created) as a computer "stream" or "flat" file (file of stream information)).

With respect to claim 4, Dillon teaches a method for broadcasting according to claim 3, further comprising adding for each offer a service provider offer description in the file of offer information (column 8, lines 43-46, Fragmenting the large (i.e. multi-megabyte) packages (which contain URL data items from the web sites 18) into an appropriate sequence of packets (adding service provider offer description into each file of offer information).

With respect to claim 5, Dillon teaches a method for broadcasting according to anyone of claims 3 or 4, wherein

the extracting of transport stream information from its bundle comprises for each transport stream (column 10, lines 27-29, The web crawler 30 formats (extract) a channel's content (bundle) into a single data structure (transport stream information) that is preferably stored and transferred (created) as a computer "stream" or "flat" file), extracting an original network Id for a network previously used to deliver the transport stream (column 22, lines 52-53, The content viewer 58 extracts the domain name from the URL), and

further comprising

inserting the original network Id in relation to the transport stream in the file of stream information (column 22, lines 38-40, the content viewer 58 maintains a data structure that maps a domain name to the list of channels which contain URLs from the domain name).

With respect to claim 8, Dillon teaches a method for receiving in a set top box receiver compliant to receive a bundle of transport streams and connected to an IP multicast network, a tr'4nsport stream from a bundle, comprising

obtaining multicast stream information (702, 703) from a service provider offer localisation (column 15, lines 27-29, A head-end subsystem 52…is responsible for…multicasting the packets to the receivers (stream information is obtained from a service provider localisation)),

processing the stream information to determine a stream localisation (LN 1,1 –LN 1,4, LN 2,1 – LN 2,3) previously attributed to the transport stream (column 15, lines 30-34, optionally multiplexing (processing) the back-end subsystem's packets with data (i.e. digital video, audio, etc.) from another broadcast source 27 (link E) (multi service transport stream) and multicasting the resulting data stream(s) to the receivers 26),

obtaining multicast IP packets from the stream localisation (column 16, lines 16-18, multicast network wherein IP packets are used (obtained)).

extracting packetized data from the obtained IP packets, thereby obtaining the transport stream (column 22, lines 52-55, The content viewer 58 extracts the domain name from the URL and determines from this data structure the list of channels which might contain the URL).

With respect to claim 9, Dillon teaches a method for receiving in a set top box receiver compliant to receive a bundle of transport streams and connected to an IP multicast network, a transport stream from an offer among one or many offers in form of bundles, comprising

obtaining multicast offer information (701) from a predetermined offer localisation (column 9, lines 3-4, the multicast network 24 performs multicasting the packets (multicast offer information) to the receivers over the link over the high speed link; column 6, lines 45-47, multicasting content organized into channels (server provider offer description)…wherein a channel's content includes a plurality of URL data items from at least one web site (predetermined offer localisation),

processing the offer information to obtain a determined service provider offer localisation (L, N 0,1 – LN 0,2) previously attributed to the offer (column 6, lines 45-47, multicasting content organized into channels (server provider offer description)…wherein a channel's content includes a plurality of URL data items from at least one web site (determined offer localisation); column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)),

obtaining multicast stream information (702, 703) from the determined service provider offer localization (column 6, lines 45-47, multicasting content organized into channels (server provider offer description)…wherein a channel's content includes a plurality of URL data items from at least one web site (determined offer localisation); column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)),

processing the stream information to determine a stream localisation previously attributed to the transport stream column 15, lines 30-34, optionally multiplexing (processing) the back-end subsystem's packets with data (i.e. digital video, audio, etc.) from another broadcast source 27 (link E) (multi service transport stream) and multicasting the resulting data stream(s) to the receivers 26),,

obtaining multicast IP packets from the stream localization (column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)),

extracting packetized data from the obtained IP packets, thereby obtaining the transport stream (column 11, lines 31-33, Upon retrieving (extracting) a URL data item (transport stream identification), the web crawler determines whether and how to include the URL data item within the package (bundle) being produced by the web crawler).

With respect to claim 10, Dillon teaches a method for receiving in a set top box receiver compliant to receive a bundle of transport streams and connected to an IP multicast network, a transport stream from an offer among one or many offers in form of bundles, comprising

obtaining (800) multicast offer information (701) from a predetermined offer localisation (LN 0,0) (column 17, lines 2-5, package transmission takes place over a conditional access controlled multicast network 24 which carries IP multicast packets and where each channel is assigned an IP multicast address),

processing the offer information to obtain a list of items, each item relating a service provider offer localisation and an offer (column 9, lines 3-4, the multicast network 24 performs multicasting the packets (offer information) to the receivers over the link over the high speed link; column 6, lines 45-47, multicasting content organized into channels (server provider offer description)...wherein a channel's content includes a plurality of URL data items from at least one web site (service provider offer localisation); column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address (IP multicast network)),

obtaining (801), for each item, multicast stream information (702, 703) from the service provider offer localisation corresponding to the item (column 15, lines 27-34, A

head-end subsystem 52…is responsible for…multicasting the packets to the receivers (multicasting stream information)…optionally multiplexing the back-end subsystem's packets with data (i.e. digital video, audio, etc.) from another broadcast source 27 (link E) (multi service transport stream) and multicasting the resulting data stream(s) to the receivers 26 (stream localisation)),

processing (801) the stream information to obtain a transport stream list (802) of transport streams and respectively related stream localizations (column 10, lines 48-50, the web crawler 30 creates a list of URL addresses to be crawled, which initially contains only the starting address),

storing the transport stream list in the set top box (column 16, lines 21-…, the receiver 26 may comprise any component capable of receiving and processing packets from a multicast network, such as a settop box which provides data services (optionally along with digital video services).

With respect to claim 11, Dillon teaches a method for receiving according to claim I 0, comprising

requesting (900) a determined transport stream (TS x,y) (column 22, lines 24, it receives requests for URLs from the browser 12),

finding (901) a stream localisation corresponding to the determined transport stream in the transport stream list (802) (column 10, lines 48-50, the web crawler 30 creates a list of URL addresses to be crawled, which initially contains only the starting address),

obtaining (902) multicast IP packets (903) from the stream localization (column 16, lines 16-18, multicast network wherein IP packets are used and the destination IP address field holds a multicast address),

extracting (904) packetized data from the obtained IP packets, thereby obtaining the determined transport stream (905) (column 11, lines 31-33, Upon retrieving (extracting) a URL data item (transport stream identification), the web crawler determines whether and how to include the URL data item within the package (bundle) being produced by the web crawler).

With respect to claim 12, Dillon teaches a method for broadcasting over an IP multicast network at least one offer of multimedia services received in form of a bundle of transport streams, comprising

receiving for each transport stream a corresponding stream of packetized data and inserting the packetized data into IP packets (column 17, only subscribed receivers may access a channel's MPEG2 transport stream; column 17, line 4, multicast network 24 which carries IP multicast packets),

multicasting the IP packets for each transport stream respectively at a determined stream localisation (column 17, lines 2-5, package transmission (multicasting) takes place over a conditional access controlled multicast network 24 which carries IP multicast packets and where each channel is assigned an IP multicast address).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANGELA NGUYEN whose telephone number is (571)270-5660. The examiner can normally be reached on Mondays, Thursdays, and alternate Fridays, 7:30 AM - 5 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Robertson can be reached on (571)272-4186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A.N./
/ANGELA NGUYEN/
Examiner, Art Unit 4121
August 23, 2008

/Ramy M Osman/
Primary Examiner, Art Unit 2157